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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/060,759	01/30/2002	Adam Lerner	701586/50174-DIV	8480
50607 75	590 07/25/2005	EXAMINER		
RONALD I. EISENSTEIN 100 SUMMER STREET			SPIVACK, PHYLLIS G	
NIXON PEABODY LLP			ART UNIT .	PAPER NUMBER
BOSTON, MA	02110		1614	,

DATE MAILED: 07/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summary		10/060,759	LERNER, ADAM					
		Examiner	Art Unit	p)				
		Phyllis G. Spivack	1614					
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet w	ith the correspondence address					
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period treeto reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a ply within the statutory minimum of thin will apply and will expire SIX (6) MOI te, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	ion.				
Status								
1)🖂	Responsive to communication(s) filed on <u>4-4-</u>	<u>-05; 5-4-05</u> .						
2a)□	This action is FINAL . 2b)⊠ Thi	is action is non-final.						
3)□	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims		,					
4)⊠	Claim(s) 1-7 and 15 is/are pending in the app	lication.						
	4a) Of the above claim(s) is/are withdra	awn from consideration.		i i				
5)⊠	Claim(s) 15 is/are allowed.							
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>1-7</u> is/are rejected.							
· —	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction and/	or election requirement.						
Applicati	on Papers							
9)[The specification is objected to by the Examin	er.	·					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152.					
Priority (ınder 35 U.S.C. § 119		, ·					
_	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document	nts have been received. Its have been received in A	opplication No					
	application from the International Burea	•		44				
* See the attached detailed Office action for a list of the certified copies not received.								
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Attachmen	t(s)							
1) Notic	e of References Cited (PTO-892)		Summary (PTO-413)					
2) Notic 3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	Paper No(s)/Mail Date nformal Patent Application (PTO-152)					

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Applicant's Amendment filed April 4, 2005 is acknowledged. Claims 1-7 and 15 remain under consideration. A Declaration of Dr. Adam Lerner is noted. A Supplemental Amendment filed May 4, 2005 is further acknowledged wherein a Terminal Disclaimer is presented.

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

There presently are no composition claims.

Claims 1-7 were rejected under the judicially created doctrine of obviousnesstype double patenting as being unpatentable over claims 1-7 of U.S. Patent No. 6,399,649 in the last Office Action.

Subsequent to the filing and acceptance of a Terminal Disclaimer, this rejection of record is withdrawn.

In the last Office Action claims 1-7 were rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the administration of rolipram and 4-(3-Butoxy-4-methoxybenzyl)-2-imidazolidinone, does not reasonably provide enablement for any type 4 cyclic adenosine monophosphate inhibitor. It was asserted the specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims.

In view of the Lerner Declaration and Applicants' argument that members of the class of PDE4 inhibitors behave alike in a wide range of functional assays and in their use to treat different conditions, this rejection of record is withdrawn.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vassallo et al., Mayo Clinic Proceedings.

Vassallo teaches the administration of theophylline, a cyclic adenosine monophosphate phophodiesterase (PDE) inhibitor, to induce apoptosis in chronic lymphocytic leukemia (CLL) cells. See page 351. The claims differ in that Vassallo encompasses the inhibition of PDE isoenzymes PDE I to VII, with emphasis given to PDE type IV being predominantly expressed by inflammatory cells. See the first column, lines 6-10, on page 347. Therefore, in view of the teachings of Vassallo, one skilled in the hematology art would have been motivated to administer theophylline, a PDE inhibitor of multiple isoenzymes, to treat a patient having symptoms of chronic lymphocytic leukemia. Such would have been obvious in the absence of evidence to the contrary, because theophylline is well established in the prior art as an inhibitor of multiple isoenzymes of PDE with particular efficacy in inflammatory conditions. A therapeutic effect in a patient having symptoms of chronic lymphocytic leukemia would have been a reasonable conclusion because theophylline induces apoptosis and CLL is an inflammatory process. Vassallo suggests a new potential application for theophylline, a drug that has been given through various modes of administration for decades. All patient populations having CLL, such as those who are naïve,

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immunocompromised or unresponsive to chemotherapy with alkylating agents, would reasonably be included in the teachings of the reference.

The elected species, 4-(3-Butoxy-4-methoxybenzyl)-2-imidazolidinone, also known as Ro-1724, recited in claim 15, appears to be free of the prior art.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Phyllis G. Spivack whose telephone number is 571-272-0585. The examiner can normally be reached Monday to Friday from 10:30 AM to 7 PM.

If attempts to reach the Examiner by telephone are unsuccessful after one business day, the Examiner's supervisor, Chris Low, can be reached at 571-272-0951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phyllis G. Spivack Primary Examiner

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